# OXFORD
## LAB PRODUCTS

# BenchMate®
## Magnetic & Hotplate Stirrers

BenchMate MS1

PULSE TIME

1500 Mins RPM

OXFORD
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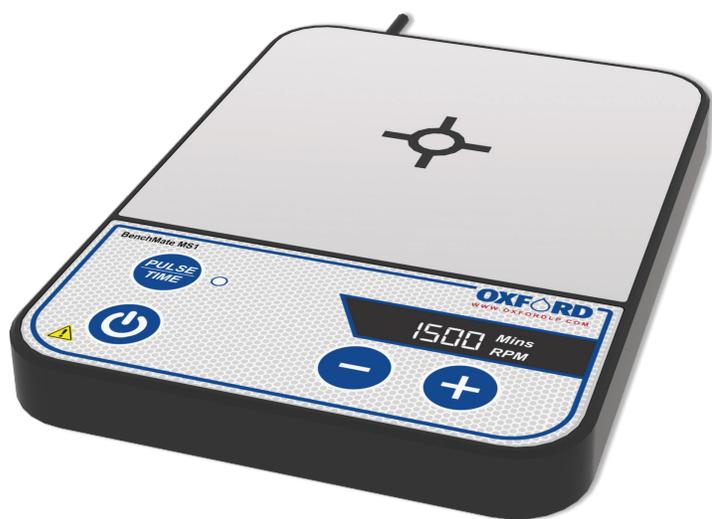
Designed by Scientists,
Feared by Competitors

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BenchMate MHS-10L

ACTUAL
SET

320 °C °F / Probe

2200 SPEED TIME

TEMP  °C/°F  SPEED  TIME

HOT

START STOP

# Oxford Lab Products

# BenchMate® Digital Magnetic and Hotplate Stirrers

## Features and Benefits

### Space Saving Design
Maximize the use of precious bench-top space, the 10-place (MHS-10) unit is less than 8 inches wide

### Pulse Function for Vigorous Mixing
Alternates between clockwise and counterclockwise motion every 30 seconds

### Designed with Documentation in Mind
Digital display indicates speed and time

### Maintenance Free
Motorless stirrers with no moveable parts

### Easy to Clean
Digital display without knobs
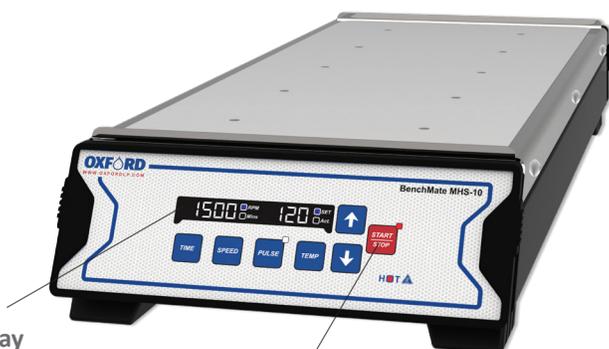
**Easy-to-read LED Display**
Digital display specifies speed, time, and temperature

**Designed for User Safety**
Dedicated "HOT" LED indicator light and waterproof heater with built-in safety cutoff

| Product Specifications | BenchMate® Magnetic Stirrers | | BenchMate® Hotplate Stirrers | |
|---|---|---|---|---|
| Catalog Number | MS1 | MS4 | MHS-5 | MHS-10 |
| Number of Stirring | 1 | 4 | 5 | 10 |
| Max. Volume per Position | 800 mL | 400 mL | 400 mL | 400 mL |
| Total Max. Volume | 800 mL | 1600 mL | 2000 mL | 4000 mL |
| Variable Speed | 15 to 1500 rpm, in 50 rpm Increments | 15 to 1200 rpm, in 50 rpm Increments | 300 to 1500 rpm, in 10 rpm Increments | 300 to 1500 rpm, in 10 rpm Increments |
| Run Time | 1 to 99 Minutes & Infinite Mode | 1 to 99 Minutes & Infinite Mode | 1 to 999 Minutes & Infinite Mode | 1 to 999 Minutes & Infinite Mode |
| Digital Display | Yes | Yes | Yes | Yes |
| Pulse Mode | Yes | Yes | Yes | Yes |
| No. PTFE Coated Stir Bars Included (25 x 8 mm) | 1 | 4 | 5 | 10 |
| Motor Type | BLDC | BLDC | BLDC | BLDC |
| Plate Material | Corrosion Resistant Stainless Steel | Corrosion Resistant Stainless Steel | Corrosion Resistant Stainless Steel with Silicone Sheet | Corrosion Resistant Stainless Steel with Silicone Sheet |
| Dimensions (L x W x H) | 156x110x13.2 mm | 457x126x13.4 mm | 562x136x75 mm | 565x196x75 mm |
| Protection Class | IP 65 | IP 65 | IP 65 | IP 65 |
| Heater Temperature Range | Ambient, No Heating Element | Ambient, No Heating Element | Ambient to 120°C | Ambient to 120°C |

Oxford Lab Products
# BenchMate® 10L Digital Hotplate Stirrer
## Features and Benefits

### Designed for Heating to Precise Temperatures
With the included temperature sensor you are able to monitor the temperature of your solution

### Small Footprint
Stir and heat up to 10L in less than 1 square foot

### User Friendly
Large and clear digital display shows temperature, speed, and stir time. A dedicated "HOT" LED indicator is highly visible for user safety.

### Powerful
Mix solutions up to 2200 rpm

### Save Time
Last run memory feature saves time when preparing the same solutions
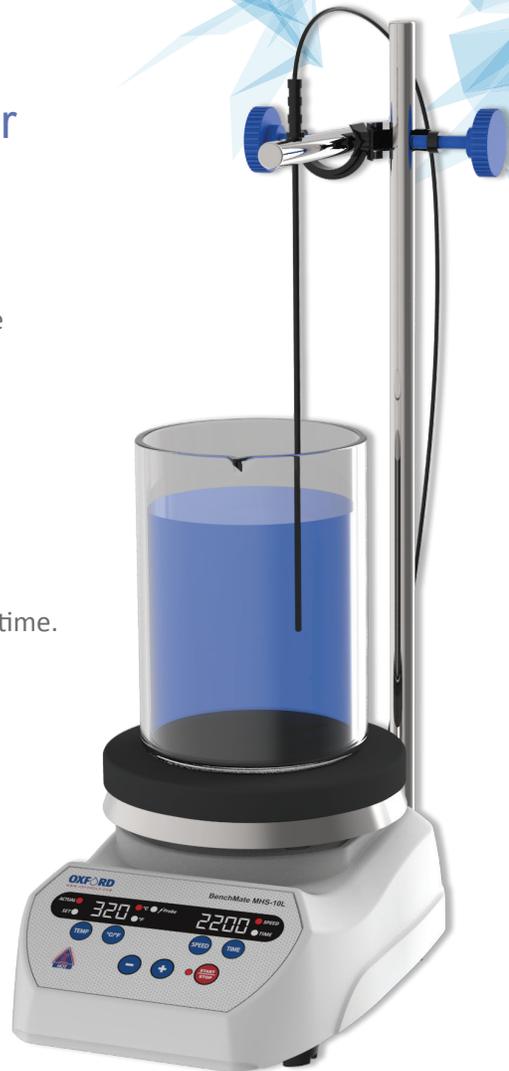
**Designed for Heating to Precise Temperatures**
With the included temperature sensor you are able to monitor the temperature of your solution

| Product Specifications for BenchMate® 10L Hotplate Stirrer | |
| --- | --- |
| Catalog Number | MHS-10L |
| Maximum Volume | 10 L |
| Variable Speed | 200 rpm to 2200 rpm, in 10 rpm Increments |
| Heater Temperature Range | Ambient to 320°C, in 1°C Increments |
| Temperature Sensor and Stand | Included |
| Temperature Selection | °C or °F |
| Digital Display | Yes |
| Pulse Mode | No |
| No. PTFE Coated Stir Bars Included (25 x 8 mm) | 1 |
| Hotplate Material | Ceramic Coated Stainless Steel |
| Hotplate Dimensions | 140 mm Diameter |
| Weight of Instrument | 2.2 kg |
| Dimension (L x W x H) | 248 x 156 x 104 mm |
| Protection Class | IP 21 |

## Oxford Lab Products
# BenchMate® 20L Digital Hotplate Stirrer
## Features and Benefits

### High Capacity Hotplate Stirrer
Heat and mix up to 20L with a maximum speed of 2200 rpm

### Designed for Gentle to Vigorous Mixing
A large variable speed range of 200 to 2200 rpm with optional pulse mode

### Features designed for GLP and GMP Labs
Large digital display simultaneously shows set temperature, actual temperature, speed, operation mode

### Multiple heating modes
- Slow heating with high accuracy
- Fast heating with high accuracy – heats solutions quickly
- Rapid heating with overshoot Programmable to follow solution preparation SOP – Set and save up to 99 programs.  Select speed, time, temperature and pulse feature.
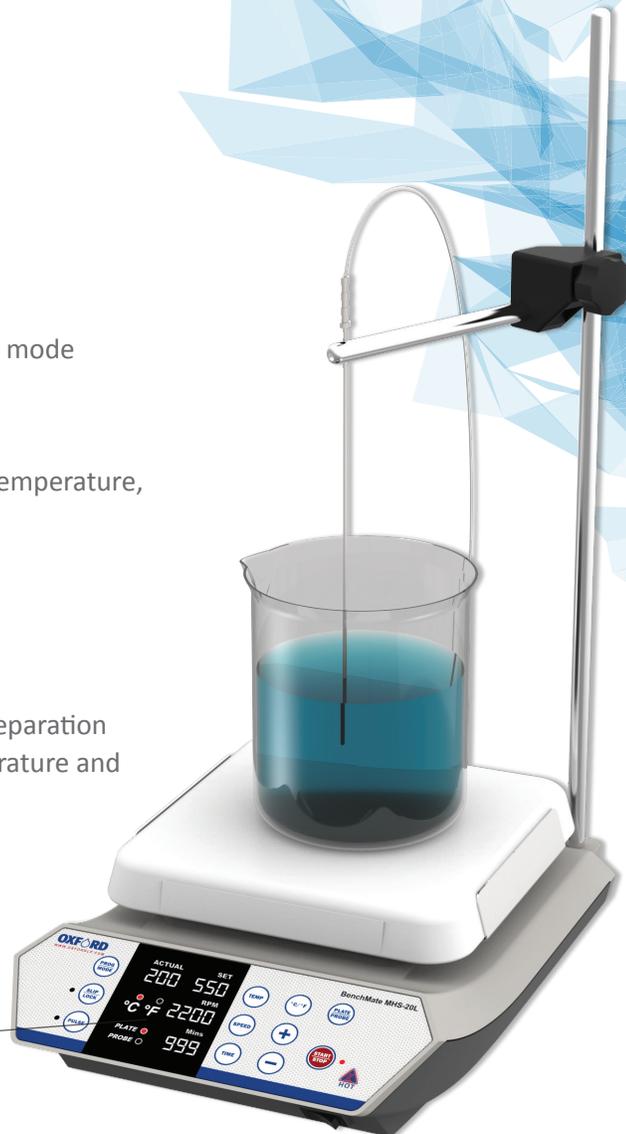
**No toggle display**
Critical parameters are displayed simultaneously

### Product Specifications for BenchMate® 20L Hotplate Stirrer

| | |
|---|---|
| Catalog Number | MHS-20L |
| Optional Temperature Probe | MHS-20L-PROBE |
| Maximum Volume | 20 L |
| Variable Speed | 200 rpm to 2200 rpm, in 10 rpm Increments |
| Heater Temperature Range | Ambient to 550° C |
| Run Time | 1 to 999 Minutes and Infinite |
| Programmable Mode | Yes; User Can Set and Save Up to 99 User Defined Programs (Protocols) |
| Pulse Mode | Programmable Pulse Mode - User Can Set Time from 30 to 99 Seconds |
| Motor Type | BLDC |
| Hotplate Material | Nano Crystalline Glass Ceramic |
| Hotplate Dimensions | 180 x 180 mm |
| Weight | 5.4 kg |
| Dimension (L x W x H) | 220 x 330 x 115 mm |
| Protection Class | IP 21 |